Cellular Immunology

AN INTERNATIONAL JOURNAL

EDITOR-IN-CHIEF: H. Sherwood Lawrence

Volume 84, 1984

ACADEMIC PRESS, INC.
(Harcourt Brace Jovanovich, Publishers)
San Diego Orlando San Francisco New York London
Toronto Montreal Sydney Tokyo São Paulo

Copyright © 1984 by Academic Press, Inc.
All Rights Reserved

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the copyright owner.

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc. (21 Congress Street, Salem, Massachusetts 01970), for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Copy fees for pre-1984 articles are as shown on the article title pages; if no fee code appears on the title page, the copy fee is the same as for current articles.

0008-8749/84 $3.00

MADE IN THE UNITED STATES OF AMERICA

Contents of Volume 84

NUMBER 1, MARCH 1984

ACKNOWLEDGMENT iii

CYNTHIA J. DENBOW, JAMES M. CONROY, AND KLAUS D. ELGERT. Macrophage-Derived Prostaglandin E Modulation of the Mixed-Lymphocyte Reaction: An Anomaly of Increased Production and Decreased T-Cell Susceptibility during Tumor Growth 1

ANAT GROSS, SHOSHANA FRANKENBURG, AND MAURICIO V. LONDNER. Cell-Mediated Immunity in Rats Injected with an Antimalaria T-Cell Line 14

ROBERT W. WARREN, JOHN B. ROTHS, EDWIN D. MURPHY, AND DAVID S. PISETSKY. Mechanisms of Polyclonal B-Cell Activation in Autoimmune B6-*lpr/lpr* Mice 22

DAVID S. PISETSKY, SANDRA A. CASTER, MARGARET PIPER, DAVID W. SCOTT, AND ALFRED D. STEINBERG. Cloning of B Cells from Autoimmune MRL-*lpr/lpr* and MRL.*xid* Mice 32

RENE S. ROSENSON AND CAROL L. REINISCH. Induction of T-Cell Proliferation by an Ia^+ Monocytic Tumor Clone 41

LUIGI VARESIO, HALEEM J. ISSAQ, ROBERT KOWAL, EZIO BONVINI, AND DONATELLA TARAMELLI. Lymphokines Inhibit Macrophage RNA Synthesis 51

NICOLETTA SACCHI, TUCKER V. LEBIEN, STEPHEN TROST, DIEGO BREVIARIO, AND F. J. BOLLUM. Phorbol Ester-Induced Changes in Human Leukemic Pre-B Lines 65

VINCENT J. MERLUZZI, DOUGLAS M. SAVAGE, ROLAND MERTELSMANN, AND KARL WELTE. Generation of Nonspecific Murine Cytotoxic T Cells *in Vitro* by Purified Human Interleukin 2 74

THOMAS R. MALEK AND ETHAN M. SHEVACH. Interleukin 2-Driven T Lymphocyte Proliferation Is Dependent upon a Surface Antigen Distinct from the Interleukin 2 Receptor: Requirements for Inhibition of T-Cell Proliferation by Monoclonal Antibody 5C3 85

MAHIN M. PARK AND ZACHARIE BRAHMI. Monoclonal Antibody against K562 Cell Line Accelerates Killing of the Target Cells by Large Granular Lymphocytes 94

SHARYN M. WALKER, PAMELA J. FRAKER, AND WILLIAM O. WEIGLE. Interference with Tolerance Induction of Primed B Cells by the Fc Fragment of Immunoglobulin 104

IAN M. ORME AND FRANK M. COLLINS. Adoptive Protection of the *Mycobacterium tuberculosis*-Infected Lung 113

BRUCE E. ELLIOT, ROGER G. PALFREE, AND SUSAN MUNDINGER. Receptor Specificity of Ia-Restricted T Lymphoblasts Activated against Trinitrobenzene Sulfonate-Coupled Spleen Cells: Recognition of Distinct Trinitrophenyl and Ia Moieties 121

CLAUDE BRILLOUET, MICHEL LECLERC, RUBÉN A. BINAGHI, AND GILLES LUQUET. Specific Immune Response in the Sea Star *Asterias rubens:* Production of "Antibody-like" Factors 138

SUSANNE BECKER. Influence of Interferon on Human Monocyte to Macrophage Development .. 145

NOBUYUKI MIYASAKA, BARBARA DARNELL, SAMUEL BARON, AND NORMAN TALAL. Interleukin 2 Enhances Natural Killing of Normal Lymphocytes 154

NORMAN L. LETVIN, WAYNE R. ALDRICH, DAVID A. THORLEY-LAWSON, STUART F. SCHLOSSMAN, AND LEE M. NADLER. Surface Antigen Changes during B-Lymphocyte Activation in Primates 163

G. H. STREJAN, D. H. PERCY, AND J. ST. LOUIS. Suppression of Experimental Allergic Encephalomyelitis in Lewis Rats Treated with Myelin Basic Protein–Liposome Complexes: Clinical, Histopathological, and Cell-Mediated Immunity Correlates 171

ANDRÁS PERL, RHENSO GONZALEZ-CABELLO, ISTVÁN LANG, AND PÉTER GERGELY. Effector Activity of $OKT4^+$ and $OKT8^+$ T-Cell Subsets in Lectin-Dependent Cell-Mediated Cytotoxicity against Adherent HEp-2 Cells 185

SHORT COMMUNICATIONS

SANDRA C. MILLER. Fetal Thymic Pre-T Cells neither Demonstrate nor Develop Natural Killer Cell Activity 194

CHRISTOPH C. ZIELINSKI, ENRICO SAVOINI, MAURO CIOTTI, ROBERTO ORANI, HERBERT KÖNIGSWIESER, AND MARTHA M. EIBL. Dialyzable Leukocyte Extract (Transfer Factor) in the Treatment of Superinfected Fistulating Tuberculosis of the Bone 200

AKIRA YAMADA, KUNISUKE HIMENO, YOSHIO KUMAZAWA, AND KIKUO NOMOTO. Antigen-Specific Augmentation of Delayed-Type Hypersensitivity by a Humoral Factor in the Culture Supernatant of Immune Spleen Cells 206

PAPERS TO APPEAR IN FORTHCOMING ISSUES 210

TOMOHIKO OHNO, TORU NISHIHARA, JIRO INUI, KIKUKAZU SAKATSUJI, YUKIO NISHIMOTO, YOSHIAKI KAWAGUCHI, AND KOJI SAITO. Antigen-Independent Leukocyte Random Locomotion Inhibitory Activity in Human Ultrafiltrated Leukocyte Extracts 217

CAROL J. BURGER, KLAUS D. ELGERT, AND WILLIAM L. FARRAR. Interleukin 2 (IL-2) Activity during Tumor Growth: IL-2 Production Kinetics, Absorption of and Responses to Exogenous IL-2 228

DAVID O. SLAUSON, CHRISTOPH WALKER, FLEMMING KRISTENSEN, YAXIN WANG, AND ALAIN L. DE WECK. Mechanisms of Serotonin-Induced Lymphocyte Proliferation Inhibition 240

ROSALIA LELCHUK, GILLIAN ROSE, AND J. H. L. PLAYFAIR. Changes in the Capacity of Macrophages and T Cells to Produce Interleukins during Murine Malaria Infection 253

S. CHATTERJEE-HASROUNI, R. PARHAR, AND P. K. LALA. An Evaluation of the Maternal Natural Killer Cell Population during the Course of Murine Pregnancy 264

MIKKO HURME AND MARJA SIHVOLA. High Expression of the Thy-1 Antigen on Natural Killer Cells Recently Derived from Bone Marrow 276

MARY ANNE TALLE, NANCY ALLEGAR, MARY MAKOWSKI, AND GIDEON GOLDSTEIN. Distinct Classes of Human T-Cell Activation Antigens 285

RIAZ I. ZUBERI AND DAVID H. KATZ. Spontaneous Proliferation in Unfractionated Spleen Cell Cultures: Autologous Mixed-Lymphocyte Reactions (AMLR) Which Can Be Differentially Regulated by Prostaglandins and Lymphokines 299

THERESA L. GERRARD, THOMAS R. CUPPS, CYNTHIA H. JURGENSEN, AND ANTHONY S. FAUCI. Increased Expression of HLA-DR Antigens in Hydrocortisone-Treated Monocytes 311

DENISE R. SHAW AND FRANK M. GRIFFIN, JR. Functional Characteristics of the Macrophage Receptors for IgG-Fc and C3: Failure to Detect C3 Receptor-Mediated Extracellular Cytolysis by Mouse Peritoneal Macrophages 317

GLENN E. NEDWIN, MARJORIE A. MOHLER, AND RICHARD A. LUBEN. Production of Human/Mouse Hybridomas Secreting a Human Lymphokine, Osteoclast Activating Factor 324

PIERO MUSIANI, NICOLA MAGGIANO, FRANCESCA B. AIELLO, LIBERO LAURIOLA, FRANCO O. RANELLETTI, AND MAURO PIANTELLI. Ia- and IgG-Fc Receptor-Positive Accessory Cell Sustains Peripheral T Lymphocyte but Not Thymocyte Mitogenesis Induced by OKT3 Monoclonal Antibody 333

MAURIZIO ZANETTI, AMNON ALTMAN, KAREN EVANS, AND JOY ROGERS. Autoreactive Rat T-Cell Lines: Establishment and Cellular Characteristics 341

NEERA AGRWAL AND DAVID W. THOMAS. A Role for Ia Antigens in Thymocyte Binding by Macrophages 352

ROBERT J. KEARNS AND RICHARD W. LEU. Modulation of Natural Killer Activity in Mice following Infection with *Listeria monocytogenes* 361

KATSUIKU HIROKAWA AND TOSHIHIKO SADO. Radiation Effects on Regeneration and T-Cell-Inducing Function of the Thymus 372

M. R. SHALABY, P. K. WECK, E. RINDERKNECHT, R. N. HARKINS, J. W. FRANE, AND M. J. ROSS. Effects of Bacteria-Produced Human Alpha, Beta, and Gamma Interferons on *in Vitro* Immune Functions 380

MYRON R. SZEWCZUK. Strain Differences in the Development of Auto-anti-idiotypic Antibody Regulation with Age: Genetic Linkage to the Igh-C Locus 393

SHORT COMMUNICATIONS

JUDITH A. OWEN, MICHELE ALLOUCHE, AND PETER C. DOHERTY. Frequency of Influenza-Responsive Cytolytic T-Lymphocyte Precursors in the Thymus and Spleen of Unprimed Mice 403

ROBERT B. CLARK, PAULA DORE-DUFFY, JAMES O. DONALDSON, M. KATHRYN POLLARD, AND SUSAN P. MUIRHEAD. Generation of Phenotypic Helper/Inducer and Suppressor/Cytotoxic T-Cell Lines from Cerebrospinal Fluid in Multiple Sclerosis 409

MARTIN L. SCHULKIND, LYLE R. HEIM, MARY A. SOUTH, WAYBURN S. JETER, AND PARKER A. SMALL, JR. A Case Report of the Successful Treatment of Recurrent Aphthous Stomatitis with Some Preparations of Orally Administered Transfer Factor 415

JOHN H. ROBINSON. The Ontogeny of Thymic Macrophages: Thymic Macrophages Express Ia from 15 Days Gestation Onwards in the Mouse 422

PNINA BRODT AND P. K. LALA. An Analysis of Host T-Cell Subsets Based on Lyt Antigenic Markers during the Development of Spontaneous C3H Mammary Carcinomas 427

DONALD G. PAYAN, CARL A. HESS, AND EDWARD J. GOETZL. Inhibition by Somatostatin of the Proliferation of T-Lymphocytes and Molt-4 Lymphoblasts 433
NORBERT GUALDE AND JAMES S. GOODWIN. Effect of Irradiation on Human T-Cell Proliferation: Low Dose Irradiation Stimulates Mitogen-Induced Proliferation and Function of the Suppressor/Cytotoxic T-Cell Subset 439
RANDALL W. BARTON, ROGER S. THRALL, AND RUSSELL H. NEUBAUER. Binding of Human Lymphocyte-Specific Monoclonal Antibodies to Common Marmoset Lymphoid Cells 446
MAX I. JOFFE AND ARTHUR R. RABSON. Absence of OKT4-Positive Lymphocytes in Black African Subjects 453

MEETING REPORT
LOUISE T. ADLER, FRANK L. ADLER, WILLIAM J. MANDY, L. SCOTT RODKEY, AND DENNIS W. METZGER. Second International Workshop on Immunogenetics and Immunobiology of the Rabbit 458

LETTER TO THE EDITOR
WILLIAM E. PAUL. Nomenclature for B-Cell Stimulatory Factors 461

PAPERS TO APPEAR IN FORTHCOMING ISSUES 463

AUTHOR INDEX FOR VOLUME 84 470

The Subject Index for Volume 84 will appear in the December 1984 issue as part of a cumulative index for the year 1984.